Author Index of Volume 19

Angelov, P. V., 113
Aono, W., 191
Ardizzone, S., 497
Atmani, H., 255

Banks, E., 199
Bélanger, G., 215
Bellobono, I. R., 13
Bensitel, M., 147
Berezin, A. A., 407
Bernache, D., 167
Besse, J. P., 567
Billy, M., 229
Blasse, G., 357, 547
Boffi, P., 205
Bonino, F., 557
Botto, I. L., 525
Busca, G., 157

Cabrerizo, M. A., 327	
Champarnaud-Mesjard, J. (C
167	
Chemodanov, A. N., 1	
Choma, J., 267	
Číhal, V., (in Kladno), 447	7
Číhal, V., (in Prague), 447	
Cornet, D., 301	
Crine I.P. 397	

Davydov, A. A., 97
Degh Khadirian, R., 229
Delgado, A., 327
Denga, E., 475
De Pascale, O., 205
Dimitrijević, R. Ž., 579
Dirksen, G. J., 547
Druaux, F., 463
Duval, M., 397

Ecolivet, C., 301
Engelhard, P., 301
Esposito, C., 205

Fatas,	E., 315	
Forance	o, C., 567	

Formaro, L., 497
Frit, B., 167
Fujita, T., 191

Gallegos, N. G., 431
Gierak, A., 503
Gillot, B., 485
Gonzalez-Caballero, F., 327
Gonzalez Velasco, J., 341
Guo Xiang Cheng, 179
Gzowski, O., 475

Haga, Y.	, 3	81	
Hemidy,	J.	F.,	301
Harrasti	D	31	5

Ibrahim, A.	M.,	407
Inoue, S., 3	81	

Jacques,	R.,	215	
Jaroniec,	M.,	247,	267

Kang De Yao, 179
Karas, A., 447
Kolotyrkin, Ya. M.,
Kutty, T. R. N., 533
Kvachkov, R., 113

Laarj, M., 485
Lavalley, JC., 147, 301
Le Bas, J., 463
Leboda, R., 503
Lepore, M., 205
Losev, V. V., 1
Lu, X., 247

Madey, R., 247
Maffi, S., 369
Manier, M., 167
Maričić, A. M., 517
Mariette, L., 301
Mennour, A., 301
Mercurio, J. P., 167
Meyerink, A., 547
Minelli, G., 525
Minić, D. M., 579
Morrow, B. A., 147

Nakajima, M., 381
Nardou, F., 229
Neyens, L., 547
Nikolov, V., 113

Oomen, E. W. J. L., 357 Ortega, J., 341

Peraldo Bicelli, L., 369
Petranović, N. A., 579
Porto Lopez, J. M., 431

Raynaud, P., 229
Righetto, L., 131
Rivolta, B., 557
Roncaglia, D. I., 525
Rothstein, D., 247
Rousset, A., 485
Ruan, S. K., 199

Saini, D. R., 123
Sakamoto, M., 191
Salcedo, J., 327
Saur, O., 147
Scrosati, B., 557
Selli, E., 131
Shenoy, A. V., 123
Shi Zhe Song, 179
Smit, W. M. A., 357
Sobieraj, M. T., 199
Srivastava, A. M., 199
Staikov, G., 113
Šušić, M. V., 517, 579

Tagliavini, P., 369
Tailhades, P., 485
Tanabe, K., 291
Terrell, D. R., 547

Vanek, V., 447 Vautier, C., 463 Vijh, A. K., 215, 397 Villalvilla, J. M., 341 Vivekanandan, R., 533

Watanabe, S., 191

Xu, B.-Q., 291

Yamaguchi, T., 291 Yankulov, P. D., 113 Yosomiya, R., 381

Zanotti, L., 369 Zeghib, A., 463

17 764

Subject Index of Volume 19

Alloys

glassy titanium based; correlation between thermal change of resistance and process of devitrification of, 517

Alumina

characterization by transmission and reflectance vibrational spectroscopy of phosphated alumina, 301

exchange of Na⁺ with Cd²⁺ in polycrystalline β' -alumina in molten salts, 113

Aminoalcohols

various, and boric anhydride; antimicrobial properties of products from reaction of, 191

Anodes

relationship between corrosion processes and oxygen evolution on anodes made from noble metals and related metal oxide anodes, 1

Antimicrobial properties

of products from reaction of various aminoalcohols and boric anhydride, 191

Antimony

HSbO_{3*nH2}O, fast protonic conductor with

application for gas sensors, 567 luminescence of Sb³⁺ ion in calcium fluorapatite of other phosphates, 357

synthesis, sintering and dielectric properties of new bismuth-lead-antimony oxide Bi₃Pb₄Sb₅O₂₁, 167

Apatite

luminescence of Sb³⁺ ion in calcium fluorapatite and other phosphates, 357

Arsenic

Cul-Ag₃AsO₄ system in solid state, 557

Barium

Eu²⁺-Mn²⁺ energy transfer in BaMgF₄, 199 precipitation of rutile and anatase (TiO₂) fine powders and their conversion to MTiO₃ (M = Ba, Sr, Ca) by hydrothermal method, 533

Bismuth

crystallization and melting of Se_{0.99}Bi_{0.01} thin films by means of D.T.A. technique, 255

synthesis, sintering and dielectric properties of new bismuth-lead-antimony oxide Bi₃Pb₄Sb₅O₂₁, 167

Boric anhydride

and various aminoalcohols; antimicrobial properties of products from reaction of, 191

Butane

 n-, and propane; sorption properties of polystyrene adsorbents from isotherms of, 247

Cadmium

copolymerisation of vinyl monomers on the surface of CdS and photoconductivity properties of resulting composites, 381

effect of thermal treatment on some properties of electrodeposited CdS thin films, 315

electrochemical and structural aspects of lithium insertion into new layered compound CdIn₂S₂Se₂, 369

exchange of Na⁺ with Cd²⁺ in polycrystalline β"-alumina in molten salts, 113

Calcium

luminescence of Sb3+ ion in calcium fluorapatite and other phosphates, 357

precipitation of rutile and anatase (TiO₂) fine powders and their conversion to MTiO₃ (M = Ba, Sr, Ca) by hydrothermal method, 533

spectroscopic and magnetic properties of garnet Ca₂NaNi₂V₃O₁₂-Ca₂NaMg₂-V₃O₁₂ solid solution, 525

Carbonization

methylene chloride; effect of parameters of, on silica gel surface on properties of adsorbent (carbosil), 503

Carbosil

adsorbent; effect of parameters of methylene chloride carbonization on silica gel surface on properties of, 503

Cathodic blistering method

for investigation corrosion resistance of composites: latex-coated metal, 179

Cobalt

kinetic study of cobalt oxides reduction by hydrogen, 431

Composites

cathodic blistering method for investigation corrosion resistance of: latex-coated metal. 179

© Elsevier Sequoia/Printed in The Netherlands

copolymerisation of vinyl monomers on surface of CdS and photoconductivity properties of resulting composites, 381

flow dynamical characterization of sorbents immobilized as, in membranes prepared by photochemical grafting on to polymers, 131

Copolymerisation

of vinyl monomers on surface of CdS and photoconductivity properties of resulting composites, 381

Copolymer melts

effects of temperature on flow of, 123

Copper

CuI-Ag₃AsO₄ system in solid state, 557 kinetic study of formation of copper selenides by copper selenization, 341

Corrosion

cathodic blistering method for investigation corrosion resistance of composites: latex-coated metal, 179

intergranular; evaluation of resistance of stainless stabilized steels to, 447

open-circuit, as origin of electrical instability arising from dissolved metal content in insulating oils in EHV current transformers, 397

processes and oxygen evolution; relationship between, on anodes made from noble metals and related metal oxide anodes, 1

Crystallization

and melting of Se_{0.99}Bi_{0.01} thin films by means of D.T.A. technique, 255

Crystals

effect of crystallite size on oxidation and reduction behaviour of manganesesubstituted magnetite of composition Mn_{0.67}Fe_{2.33}O₄, 485

efficient green-emitting luminescent material: Tb³⁺-activated monoclinic Gd₂O₃, 547

electrical conductivity of acid crystallohydrate MgHPO4·3H₂O and its structural transformations, 579

exchange of Na⁺ with Cd²⁺ in polycrystalline β"-alumina in molten salts, 113

HSbO₃·nH₂O, fast protonic conductor with application for gas sensors, 567

precipitation of rutile and anatase (TiO₂) fine powders and their conversion to MTiO₃ (M = Ba, Sr, Ca) by hydrothermal method, 533

Desorption

temperature-programmed, of phenol from oxide surfaces, 291 Devitrification

correlation between thermal change of resistance and process of, of glassy titanium based alloys, 517

Dielectric properties

and synthesis and sintering of new bismuth-lead-antimony oxide Bi₃Pb₄-Sb₅O₂₁, 167

D.T.A. technique

crystallization and melting of Se_{0.99}Bi_{0.01} thin films by means of, 255

EHV current transformers

open-circuit corrosion as origin of electrical instability arising from dissolved metal content in insulating oils in, 397

Electrical conductivity

of acid crystallohydrate MgHPO₄·3H₂O and its structural transformations, 579

Electrical instability

open-circuit corrosion as origin of, arising from dissolved metal content in insulating oils in EHV current transformers, 397

Electrochemistry

electrochemical and structural aspects of lithium insertion into new layered compound CdIn₂S₂Se₂, 369

electrochemical behaviour of (nominally) iron disilicide electrodes in sulphuric acid, 215

Electrodeposition

effect of thermal treatment on some properties of electrodeposited CdS thin films, 315

Electrodes

electrochemical behaviour of (nominally) iron disilicide electrodes in sulphuric acid, 215

relationship between corrosion processes and oxygen evolution on anodes made from noble metals and related metal oxide anodes. 1

Electrolyte solutions

aqueous: electrophoretic properties of montmorillonite particles in, 327

Electrophoretic properties

of montmorillonite particles in aqueous electrolyte solutions, 327

Europium

Eu²⁺-Mn²⁺ energy transfer in BaMgF₄, 199

Films

electrodeposited CdS thin; effect of thermal treatment on some properties of, 315

Ni_{0.5}Ag_{0.5} thin; magnetic properties of, 463 Se_{0.99}Bi_{0.01} thin; crystallization and melting of, by means of D.T.A. technique, 255

Gadolinium

efficient green-emitting luminescent material: Tb³⁺-activated monoclinic Gd₂O₃, 547

Gas sensors

HSbO₃·nH₂O, fast protonic conductor with application for, 567

Glass

correlation between thermal change of resistance and process of devitrification of glassy titanium based alloys, 517

Hardened case depths

semi-empirical method for predicting, in laser heat treating, 205

Hydrocarbon layers

internal friction of metallic samples covered with, 475

Hydrogen

kinetic study of cobalt oxides reduction by, 431

Immobilization

flow dynamical characterization of sorbents immobilized as composites in membranes prepared by photochemical grafting on to polymers. 131

Indium

electrochemical and structural aspects of lithium insertion into new layered compound CdIn₂S₂Se₂, 369

Insulating oils

in EHV current transformers; open-circuit corrosion as origin of electrical instability arising from dissolved metal content in, 397

Internal friction

of metallic samples covered with hydrocarbon layers, 475

Iron

effect of crystallite size on oxidation and reduction behaviour of manganesesubstituted magnetite of composition Mn_{0.67}Fe_{2.33}O₄, 485

electrochemical behaviour of (nominally) iron disilicide electrodes in sulphuric acid. 215

evaluation of resistance of stainless stabilized steels to intergranular corrosion, 447 precipitation of nickel ferrites: nature of intermediate steps, 497

Isotherms

sorption properties of polystyrene adsorbents from, of propane and n-butane, 247

Isotopes

stable; effects of diversity of, on properties of materials, 407

Kinetics

oxidation, of zirconium in water vapour between 750 and 1250 ℃, 229 study of cobalt oxides reduction by hydrogen, 431

study of formation of copper selenides by copper selenization, 341

Laser heat treating

semi-empirical method for predicting hardened case depths in, 205

Latex-coated metal

cathodic blistering method for investigation corrosion resistance of composites, 179

Lead

synthesis, sintering and dielectric properties of new bismuth-lead-antimony oxide Bi₃Pb₄Sb₅O₂₁, 167

Lithium

electrochemical and structural aspects of lithium insertion into new layered compound CdIn₂S₂Se₂, 369

Luminescence

efficient green-emitting luminescent material: Tb³⁺-activated monoclinic Gd₂O₃, 547

of Sb3+ ion in calcium fluorapatite and other phosphates, 357

Magnesium

electrical conductivity of acid crystallohydrate MgHPO₄·3H₂O and its structural transformations, 579

Eu²⁺-Mn²⁺ energy transfer in BaMgF₄, 199 spectroscopic and magnetic properties of garnet Ca₂NaNi₂V₃O₁₂-Ca₂NaMg₂-V₃O₁₂ solid solution, 525

Magnetic properties

of Ni_{0.5}Ag_{0.5} thin films, 463 and spectroscopic properties of garnet Ca₂NaNi₂V₃O₁₂—Ca₂NaMg₂V₃O₁₂ solid solution, 525

Magnetite

manganese-substituted, of composition Mn_{0,67}Fe_{2,39}O₄; effect of crystallite size on oxidation and reduction behaviour of, 485 Manganese

effect of crystallite size on oxidation and reduction behaviour of manganesesubstituted magnetite of composition Mn_{0.67}Fe_{2.33}O₄, 485

Eu2+-Mn2+ energy transfer in BaMgF4, 199

Membranes

flow dynamical characterization of sorbents immobilized as composites in, prepared by photochemical grafting on to polymers, 131

Microporous solids

characterization of structural heterogeneity of, by discrete and continuous micropore distribution functions, 267

Montmorillonite particles

electrophoretic properties of, in aqueous electrolyte solutions, 327

Nickel

magnetic properties of Ni_{0.5}Ag_{0.5} thin films, 463

precipitation of nickel ferrites: nature of intermediate steps, 497

spectroscopic and magnetic properties of garnet Ca₂NaNi₂V₃O₁₂—Ca₂NaMg₂-V₃O₁₂ solid solution, 525

Noble metals

relationship between corrosion processes and oxygen evolution on anodes made from noble metals and related metal oxide anodes, I

Oxidation

kinetics of zirconium in water vapour between 750 and 1250 °C, 229

and reduction behaviour; effect of crystallite size on, of manganese-substituted magnetite of composition Mn_{0.67}Fe_{2.33}. O₄. 485

Oxygen

relationship between corrosion processes and oxygen evolution on anodes made from noble metals and related metal oxide anodes, 1

Phenol

temperature-programmed desorption of, from oxide surfaces, 291

Phosphorus

characterization by transmission and reflectance vibrational spectroscopy of phosphated alumina, 301

electrical conductivity of acid crystallohydrate Mg; iPO₄·3H₂O and its structural transformations, 579

luminescence of Sb3+ ion in calcium tiuorapatite and other phosphates, 357 Photochemical grafting

on to polymers; flow dynamical characterization of sorbents immobilized as composites in membranes prepared by, 131

Photoconductivity

copolymerisation of vinyl monomers on surface of CdS and photoconductivity properties of resulting composites, 381

Polymers

flow dynamical characterization of sorbents immobilized as composites in membranes prepared by photochemical grafting on to, 131

Polystyrene adsorbents

sorption properties of, from isotherms of propane and n-butane, 247

Precipitation

of nickel ferrites: nature of intermediate reaction steps, 497

of rutile and anatase (TiO₂) fine powders and their conversion to MTiO₃ (M = Ba, Sr, Ca) by hydrothermal method, 533

Propane

and n-butane; sorption properties of polystyrene adsorbents from isotherms of, 247

Protonic conductor

HSbO₃·nH₂O fast, with application for gas sensors, 567

Reduction

cobalt oxides; kinetic study of, by hydrogen, 431

and oxidation behaviour; effect of crystallite size on, of manganese-substituted magnetite of composition Mn_{0.67}Fe_{2.33}-O₄, 485

Selenium

crystallization and melting of Se_{0.99}Bi_{0.00} thin films by means of D.T.A. technique, 255

electrochemical and structural aspects of lithium insertion into new layered compound CdIn₂S₂Se₂, 369

kinetic study of formation of copper sclenides by copper sclenization, 341

Silicon

effect of parameters of methylene chloride carbonization on silica gel surface on properties of adsorbent (carbosil), 503

electrocnemical behavious of (nominally) iron disilicide electrodes in sulphuric acid, 215 Silver

Cul-Ag₃AsO₄ system in solid state, 557 magnetic properties of Ni_{Q,5}Ag_{Q,5} thin films, 463

Sintering

and synthesis and dielectric properties of new bismuth-lead-antimony oxide Bi₃Pb₄Sb₅O₂₁, 167

Sodium

exchange of Na⁺ with Cd²⁺ in polycrystalline β"-alumina in molten salts, 113 spectroscopic and magnetic properties of garnet Ca₂NaNi₂V₃O₁₂-Ca₂NaMg₂-

V₃O₁₂ solid solution, 525

Sorbents

carbosil adsorbent; effect of parameters of methylene chloride carbonization on silica gel surface on properties of, 503

immobilized as composites; flow dynamical characterization of, in membranes prepared by photochemical grafting on to polymers, 131

polystyrene adsorbents; sorption properties of, from isotherms of propane and nbutane, 247

Sorption properties

of polystyrene adsorbents from isotherms of propane and n-butane, 247

Spectroscopic properties

and magnetic properties of garnet Ca₂NaNi₂V₃O₁₂—Ca₂NaMg₂V₃O₁₂ solid solution, 525

Spectroscopy

characterization by transmission and reflectance vibrational spectroscopy of phosphated alumina, 301 IR study of sulphated zirconia, 147

nature of vanadia supported on different carriers; FT-IR study, 157

Steels

stainless stabilized; evaluation of resistance of, to intergranular corrosion, 447

Strontium

precipitation of rutile and anatase (TiO₂)
fine powders and their conversion to
MTiO₃ (M = Ba, Sr, Ca) by hydrothermal
method: 533

Sulphur

copolymerisation of vinyl monomers on the surface of CdS and photoconductivity properties of resulting composites, 381

effect of thermal treatment on some properties of electrodeposited CdS thin films, 315

electrochemical and structural aspects of lithium insertion into new layered compound CdIn₂S₂Se₂, 369 IR study of sulphated zirconia, 147

Sulphuric acid

electrochemical behaviour of (nominally) iron disilicide electrodes in, 215

Surface

copolymerisation of vinyl monomers on, of CdS and photoconductivity properties of resulting composites, 381

nature of oxide surface sites and their role in formation of toluene complexes, 97

silica gel; effect of parameters of methylene chloride carbonization on, on properties of adsorbent (carbosil), 503

temperature-programmed desorption of phenol from oxide surfaces, 291

Synthesis

and sintering and dielectric properties of new bismuth-lead-antimony oxide Bi₃Pb₄Sb₅O₂₁, 167

Terbium

efficient green-emitting luminescent material: Tb³⁺-activated monoclinic Gd₂O₃, 547

Thermal treatment

effect of, on some properties of electrodeposited CdS thin films, 315

Titanium

based alloys, glassy; correlation between thermal change of resistance and process of devitrification of, 517

precipitation of rutile and anatase (TiO₂) fine powders and their conversion to MTiO₃ (M = Ba, Sr, Ca) by hydrothermal method, 533

Toluene

nature of oxide surface sites and their role in formation of toluene complexes, 97

Vanadium

nature of vanadia supported on different carriers; FT-IR study, 157

spectroscopic and magnetic properties of garnet Ca₂NaNi₂V₃O₁₂-Ca₂NaMg₂-V₃O₁₂ solid solution, 525

Vinyl monomers

copolymerisation of, on surface of CdS and photoconductivity properties of resulting composites, 381

Water vapour

oxidation kinetics of zirconium in, between 750 and 1250 ℃, 229

Zirconium

IR study of sulphated zirconia, 147 oxidation kinetics of, in water vapour between 750 and 1250 °C, 229